# A. Permit Certificate MUNICIPAL AND INDUSTRIAL WASTEWATER-LAND APPLICATION PERMIT LA-000153-02

U. S. Department of Energy – Idaho Operations Office, 1955 Fremont

Avenue, Idaho Falls, ID 83401-1203 and Bechtel BWXT Idaho (BBWI),

LLC, 2525 Fremont Avenue, Idaho Falls, Idaho 83415-3898 ARE HEREBY

AUTHORIZED TO CONSTRUCT, INSTALL, AND OPERATE A

WASTEWATER-LAND APPLICATION TREATMENT SYSTEM LOCATED

AT Idaho Engineering And Environmental Laboratory (INEEL) Test Area

North/Technical Support Facility (TAN/TSF) Sewage Treatment Facility

(STF) (Township 6 North, Range 31 East, Section 13) IN ACCORDANCE

WITH THE WASTEWATER-LAND APPLICATION RULES (IDAPA

58.01.17), THE WATER QUALITY STANDARDS AND WASTEWATER

TREATMENT REQUIREMENTS (IDAPA 58.01.02), THE GROUND WATER

QUALITY RULE (IDAPA 58.01.11), AND ACCOMPANYING PERMIT,

APPENDICES, AND REFERENCE DOCUMENTS. THIS PERMIT IS

EFFECTIVE FROM THE DATE OF SIGNATURE AND EXPIRES ON

They Crav

James Johnston

Idaho Falls Regional Administrator

Idaho Department of Environmental Quality

Date:

DEPARTMENT OF ENVIRONMENTAL QUALITY
900 North Skyline, Suite B
Idaho Falls, Idaho 83402
(208) 528-2650

POSTING ON SITE RECOMMENDED

#### B. Permit Contents, Appendices and Attachments

			Page
A.	Permit (	Certificate	1
B.	Permit (	Contents, Appendices and Attachments	2
C.	Abbrevi	ations, Definitions	3
D.	Facility	Information	4
E.	Complia	ance Schedule for Required Activities	6
F.	Permit I	Limits and Conditions	8
G.	Monitor	ring Requirements	10
Н.	Standard	d Reporting Requirements	12
I.	Standard	d Permit Conditions: Procedures and Reporting	13
J.	Standard	d Permit Conditions: Modifications, Violation, and Revocation	15
Append	lices_		
	1. 2.	Environmental Monitoring Serial Numbers Site Maps	16 17

#### References

- 1. Well Locations Report (See Section E, CA-153-01)
- 2. Operation and Maintenance (O & M) Manual (See Section E, CA-153-02)
- 3. Emergency Response Plan (See Section E, CA-153-03)
- 4. Waste Solids Management Plan (See Section E, CA-153-04)
- 5. Downgradient Monitor Well Report (See Section E, CA-153-05)
- 6. Coliform Source Report (See Section E, CA-153-06)
- 7. Ground Water Investigation Report and Water Quality Improvement Plan (See Section E, CA-153-07)

The Sections, Appendices, and Attachments listed on this page are all elements of Wastewater-Land Application Permit LA-000153-02 and are enforceable as such. This permit does not relieve the U. S. Department of Energy and Bechtel BWXT Idaho, LLC, hereafter referred to as the permittee, from responsibility for compliance with other applicable federal, state or local laws, rules, standards or ordinances.

LA-000153-02	TAN/TSF STF Disposal Ponds	01/26/05	Page 2
--------------	----------------------------	----------	--------

# C. Abbreviations, Definitions

BBWI	Bechtel BWXT Idaho, LLC
bgs	below ground surface
DEQ or the Idaho Department of Environmental Quality	
Department	
Director	Director of the Idaho Department of Environmental Quality, or the Directors Designee, i.e.
	Regional Administrator
GWQR	IDAPA 58.01.11 "Ground Water Quality Rule"
Handbook or	Handbook for Land Application of Municipal and Industrial Wastewater, DEQ, April 1996.
Guidelines	
HMU	Hydraulic Management Unit (Serial Number designation is MU)
IDAPA	Idaho Administrative Procedures Act.
INEEL	Idaho National Engineering and Environmental Laboratory
MG	Million Gallons (1 MG = 36.827 acre-inches)
MGA	Million Gallons Annually (per WLAP Reporting Year)
O&M manual	Operation and Maintenance Manual, also referred to as the Plan of Operation
STP	Sewage Treatment Plant
TAN	Test Area North
TDS	Total Dissolved Solids or Total Filterable Residue
TSF	Technical Support Facility
USDOE	United States Department of Energy
USGS	United States Geological Survey
WLAP	Wastewater Land Application Permit (or Program)

# D. Facility Information

Legal Name of Permittee	United States Department of Energy (USDOE) and Bechtel BWXT Idaho (BBWI), LLC	
Type of Wastewater	Domestic wastewater and process wastewater	
Method of Treatment	Sewage Treatment Plant – Imhoff tank, trickling filter, and Disposal Pond.     Process Wastewater – Disposal Pond	
	The STP effluent and Process wastewater are combined at lift station TAN-655 and then discharged to the TSF-07 Disposal Pond.	
Type of Facility	Federal (USDOE) Facility located at the Idaho National Engineering and Environmental Laboratory. This treatment system is associated with the Test Area North/Technical Support Facility (TAN/TSF)	
Facility Location	Between Howe and Terreton, approximately 10 miles northeast of the intersection of Highways 26 and 33 and 200 feet northwest of Highway 33	
Legal Location	Township 6 North, Range 31 East Section 13	
County	Butte	
USGS Quad	Circular Butte, Idaho	
Soils on Site	Terreton silty clay loam and Terreton-Zwiefel complex soils 48 to 64 feet deep	
Depth to Ground Water	Approximately 200 feet to regional aquifer. Approximately 42 feet to perched water under the ponds.	
Beneficial Uses of Ground Water	Agricultural, Industrial and Domestic	
Nearest Surface Water	Birch Creek, 0.5 miles (See Note 1)	
Beneficial Uses of Surface Water	Agricultural, Industrial, Domestic, Recreational and Aquatic Life <sup>(1)</sup>	
Responsible Officials Mailing Address Phone / Fax	John F. Kotek, Deputy Manager U.S. Department of Energy – Idaho Operations Office Mail Stop 1203 1955 Fremont Avenue Idaho Falls, Idaho 83401-1203 Phone: 208-526-2497 Fax: 208-526-0542	

LA-000153-02	TAN/TSF STF Disposal Ponds	01/26/05	Page 4

#### D. Facility Information

	Jerry Etheridge Vice President, Facility & Operations Services Bechtel BWXT Idaho (BBWI), LLC Mail Stop 3898 P.O. Box 1625 Idaho Falls, Idaho 83415-3898 Phone: 208-526-5134 Fax: 208-526-4451
Facility Contacts Mailing Address Phone / Fax	Richard Kauffman, Environmental Technical Support U.S. Department of Energy – Idaho Operations Office Mail Stop 1216 1955 Fremont Avenue Idaho Falls, Idaho 83401-1216 Phone: 208-526-7177 Fax: 208-526-1926  Ron Guymon, Director, INEEL Environmental Compliance Bechtel BWXT Idaho (BBWI), LLC Mail Stop 4143 P.O. Box 1625 Idaho Falls, Idaho 83415-4143 Phone: 208-526-4704 Fax: 208-526-5848

Additional Facility Information: The Department of Energy is a federal agency of the Executive Branch. By applying for, and accepting this WLAP, USDOE reserves and does not waive any rights, authority, claim or defenses, including both sovereign immunity and federal preemption under the Atomic Energy Act (AEA), that it may have or wish to pursue in any administrative, judicial or other proceeding.

USDOE asserts, with respect to AEA radioactive materials, that it is a self-regulating entity under the AEA. As such, the approval granted by DEQ to the permittee to land apply wastewater, as contained in this permit, does not authorize the application or disposal of AEA radioactive materials that may occur during the wastewater land application activities authorized by this permit.

Note 1 – The land application site is located in a playa at the termination of Birch Creek. There is no risk of downstream degradation to Birch Creek as a result of this land application operation.

LA-000153-02 TAN	J/TSF STF Disposal Ponds 01/26	/05 Page 5
------------------	--------------------------------	------------

# E. Compliance Schedule for Required Activities

The Activities in the following table shall be completed on or before the Completion Date unless modified by the Department in writing.

Compliance Activity Number Completion Date	Compliance Activity Description
CA-153-01 Within 3 months of permit issuance	A Well Locations Report of all ground water monitoring wells listed in Appendix 1 except the additional downgradient well shall be provided to DEQ. Horizontal locations shall be specified using the Public Land Survey system with an accuracy to the nearest third quarter (i.e. Township, Range, Section, $\frac{1}{4}$ , $\frac{1}{4}$ ). Vertical locations shall be to top of casing or a specifically designated survey point relative to a universally recognized vertical datum and to an accuracy of plus/minus one-hundredth of a foot (i.e. $\pm 0.01$ ft). Also provide the distance from the top of casing or survey point to ground level at the well to an accuracy of plus/minus one-hundredth of a foot (i.e. $\pm 0.01$ ft).
CA-153-02 Within 6 months of permit issuance	A final Operation and Maintenance (O&M) Manual for the wastewater land application facilities, incorporating the requirements of this permit shall be submitted to the Department for review and approval. The manual shall reference other written procedures required for the operation and maintenance of the service waste system and the sewage treatment plant. Upon approval, the Manual shall be incorporated by reference into this permit and shall be enforceable as a part of this permit.
CA-153-03 Within 6 months of permit issuance	An Emergency Response Plan shall be submitted to DEQ for review and approval. The Emergency Response Plan shall include provisions for ensuring that wastewater can be transferred from sources to the TAN/TSF Sewage Treatment Facility disposal pond whenever line blockages or equipment failures occur without having to resort to interim measures such as discharge to storm sewers.  Upon approval, the Emergency Response Plan shall be incorporated by reference into this permit and shall be enforceable as part of this permit.
CA-153-04 Within 6 months of permit issuance	A Waste Solids Management Plan shall be submitted to DEQ for review and approval. The plan shall describe how waste solids generated at the facility will be handled and disposed of to meet the requirements of Section I, No. 5.
CA-153-05 Within 6 months of permit issuance	A Downgradient Monitor Well Report shall be submitted to DEQ for review and approval. The report shall recommend an additional regional ground water monitoring well (either an existing or new well) that that is directly downgradient from the TAN/TSF disposal pond based on the best available information regarding local ground water flow. The well shall be located to minimize the influence of discontinued historical practices on the ground water quality. Data from the well will be used to determine the effects of the wastewater application on regional ground water quality. If a new well is recommended, the report shall include proposed plans and specifications for its construction and development.  The well shall be constructed or prepared for use as required within six months after DEQ approval of the report. Thereafter, the well shall be included in the monitoring program and subject to the same monitoring requirements as Well TAN-10A. Provide same well location information for the new well as required for existing wells per CA-153-01.

LA-000153-02	TAN/TSF STF Disposal Ponds	01/26/05	Page 6
--------------	----------------------------	----------	--------

E. Compliance Schedule for Required Activities

E. Comphance Schedule for Required Activities		
Compliance Activity Number Completion Date	Compliance Activity Description	
CA-153-06 (Within 6 months of permit issuance)	A Coliform Source Report evaluating the source of coliform organisms being detected in the regional ground water shall be submitted to DEQ for review and approval. The report shall either demonstrate that the coliform occur naturally in regional ground water not affected by any INEEL operations (past or present) or propose a Water Quality Improvement Plan (WQIP) with an implementation schedule to protect ground water quality by identifying and correcting the source of the coliform.  If DEQ approves a report indicating that the coliform are naturally occurring, no further action is required. If DEQ approves a report with a WQIP, INEEL shall execute the WQIP.	
CA-153-07 (Item No. 1 – Due within 9 months of permit issuance)	1. Pursuant to IDAPA 58.01.11.400.03, the permittee shall perform an investigation and evaluation of ground water Iron exceedances in Monitoring Well TAN-10A. Within nine (9) months of permit issuance the Permittee shall submit to DEQ for review and approval a Ground Water Investigation Report (GWIR) that addresses, at a minimum, the following items (with respect to Iron):	
	<ul> <li>a. Establishes site background ground water quality for Iron.</li> <li>b. Identifies the source(s) and confirms the cause(s) of the elevated Iron levels in Monitoring Well TAN-10A.</li> <li>c. Identifies, by mapping, the area of ground water quality degradation and the area where ground water quality exceeds the Total Iron standard set forth in the Ground Water Quality Rule (GWQR), IDAPA 58.01.11.200.01.b, as the result of past and/or present wastewater land application practices.</li> <li>d. Contains a list of the existing and projected beneficial uses of ground water in the areas where ground water quality degradation has been identified.</li> </ul>	
(Item No. 2 – Due within 12 months of permit issuance)	<ul> <li>2. For areas where the ground water quality standard for Iron has been exceeded as identified in item 1.), the Permittee shall submit to DEQ a Water Quality Improvement Plan (WQIP) which, at a minimum, includes the following items:</li> <li>a. A list of possible remedial activities using Best Management Practices (BMPs) and Best Practical Methods (BPMs) that will result in ground water quality that meets the GWQR standard and site background level to the maximum extent practicable;</li> <li>b. An analysis of each alternative activity identified in the WQIP and justification for the selected activity(s); and</li> <li>c. A schedule for implementation of the selected activity(s) and an estimated timeframe for compliance with the GWQR standard.</li> <li>With respect to the GWIR and WQIP (Documents), if upon submittal further information is requested by DEQ, the Permittee shall submit such information to DEQ within sixty (60) days of the request, or within a time frame allowed by DEQ.</li> <li>Once approved, the Documents shall become a part of this permit and shall be</li> </ul>	
	enforceable as provided in applicable law. All work undertaken shall not deviate from the approved WQIP unless prior written approval is provided by DEQ.	

LA-000153-02 TAN/TSF STF Disposal Ponds	01/26/05	Page 7
---	----------	--------

#### F. Permit Limits and Conditions

1) The Permittee is allowed to apply wastewater and treat it on a land application site as prescribed in the tables below and in accordance with all other applicable permit conditions and schedules.

Category	Permitted Limits and Conditions
Type of Wastewater	Municipal and Industrial Wastewater
Application Site Area	TAN/TSF Sewage Treatment Facility disposal pond consisting of the main disposal pond (39,000 square feet or 0.90 acres, MU-015301) and the overflow pond (14,400 square feet or 0.33 acres, MU-015302)
Application Season	Year round
Annual Reporting Year Loading Rates	November 1 to October 31
Maximum Hydraulic Loading Rate to the TAN/TSF Sewage Treatment Facility disposal pond from TAN-655 sump	13 million gallons annually (MGA)
No Runoff	No runoff is allowed from the site
Ground Water Quality	Permittee shall be in compliance with the <i>Ground Water Quality Rule</i> (GWQR), IDAPA 58.01.11 at the following ground water monitoring compliance points for the waste materials authorized for disposal under this permit. See Section H for further information concerning AEA-regulated materials.  GW-015302 (TAN-13A) – downgradient GW-015303 (TAN-10A) – downgradient <sup>2</sup> GW-015304 (TANT-MON-A-002) – downgradient GW-015305 (to be determined from Section E, CA-153-05) – downgradient
Maximum Concentration of Total Suspended Solids to the TAN/TSF Sewage Treatment Facility disposal pond from TAN-655 sump	100 milligrams per liter, 30-day average

LA-000153-02 TAN/TSF STF Disposal Ponds	01/26/05	Page 8
---	----------	--------

#### F. Permit Limits and Conditions

Category	Permitted Limits and Conditions
Maximum Concentration of Total Nitrogen (TKN plus Nitrate-N plus Nitrite-N) to the TAN/TSF Sewage Treatment Facility disposal pond from TAN-655 sump	20 milligrams per liter, 30-day average
Wellhead Protection	Any new production wells potentially affected by the wastewater land application shall be determined to be acceptable, prior to construction, per the requirements of the <i>Well Location Acceptability Analysis</i> (WLAA) contained in DEQ <i>Handbook for Land Application of Municipal and Industrial Wastewater April 1996</i> (Handbook).
Buffer Zones	The TAN/TSF facility is a restricted facility with no public access. These restrictions shall remain in force for the duration of this permit.
Fencing and Posting	Fencing is not required.  Posting shall state "Sewage Effluent Application – Keep Out" or equivalent <sup>1</sup> .  Posting required every 500 feet and at each corner of the outer perimeter of the land application site. Posting shall be visible and legible from outside of the wastewater application perimeter.
Construction Plans	Prior to construction or modification of all wastewater facilities associated with the land application system or expansion, detailed plans and specifications shall be reviewed and approved by DEQ. Within 30 days of completion of construction, the permittee shall submit as-built plans for review and approval.
Radiological Information	The permittee agrees to provide a report to the Department of Environmental Quality within six (6) months of permit issuance that documents the process streams contribution to the TAN/TSF pond effluent. The report will provide which streams could potentially contain radioactivity. The report is expected to demonstrate that:  1) the radioactivity related to the process streams is derived from AEA sources and is thereby regulated under that law; and 2) TAN has protective systems in place to ensure radioactivity will not be released into the TAN/TSF pond. If the report finds that the process streams could potentially contain radioactivity not derived from AEA sources, the Department of Environmental Quality reserves the right to modify this permit.

- 1. The Department considers the current radioactive warning signs that restrict access to be "equivalent." Therefore, no additional signage is necessary at this time.
- 2. Pursuant to IDAPA 58.01.17.600.01 and 600.04, IDAPA 58.01.11.400.03 and 400.05, and Section E CA-153-07 of this permit, the limits set forth in IDAPA 58.01.11.200.01.b for Iron shall not apply at Monitoring Well TAN-10A (GW-015303) for the term of this permit. Ground Water Quality at all other monitoring wells specified in this permit shall comply with all standards, limits, and conditions (including iron) required by the Ground Water Quality Rule, IDAPA 58.01.11.

LA-000153-02 TAN/TSF STF Disposal Ponds	01/26/05	Page 9
---	----------	--------

#### G. Monitoring Requirements

- 1) Pursuant to IDAPA 58.01.02.090.01 and IDAPA 58.01.11.200.01.e., appropriate analytical methods, as given in 40 CFR 136, 40 CFR 141, 40 CFR 143, or as approved by the Idaho Department of Environmental Quality, shall be employed. A description of approved sample collection methods, appropriate analytical methods and companion QA/QC protocol shall be included in the Operation and Maintenance Manual or other written procedures.
- 2) The permittee shall monitor and measure parameters as stated in the Facility Monitoring Table in this section.
- 3) Samples shall be collected at times and locations that represent typical environmental and process parameters being monitored.
- 4) Unless otherwise specified in this permit, influent and effluent wastewater samples shall be 24 hour flow-proportioned samples of at least 8 aliquots collected either manually or automatically in a manner that yields a representative sample.
- 5) Ground Water Monitoring Procedure: Ground Water Monitoring Wells shall be purged a minimum of three casing volumes and/or until field measurements for pH, specific conductance and temperature meet the following conditions: two successive temperature values measured at least five minutes apart are within one degree Celsius of each other, pH values for two successive measurements measured at least five minutes apart are within 0.2 units of each other, and two successive specific conductance values measured at least five minutes apart are within 10% of each other. This procedure will determine when the wells are suitable for sampling for constituents required by the permit. Other procedures, such as low flow sampling, may be considered by DEQ for approval. The static water level shall be measured prior to pumping or sampling the ground water. Wells with inadequate sampling volume shall be reported as "Dry" in the Annual Report.
- 6) Reporting of monitoring requirements is described in Section H, Standard Reporting Requirements.
- 7) Monitoring locations are defined in Appendix 1, "Environmental Monitoring Serial Numbers".

#### **Facility Monitoring Table**<sup>(1)</sup>

Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Daily	Wastewater from the TAN-655 sump being discharged to the disposal pond. (combined sewage treatment plant effluent and process drain discharge)	Flow meter on discharge line; visual observation; record readings	Total volume discharged to the TAN/TSF Sewage Treatment Facility disposal pond in gallons per day and million gallons per year

G. Monitoring Requirements

Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Monthly	Wastewater from the TAN-655 sump being discharged to the disposal pond	Grab Sample  Composite Sample	pH, Total Coliform, Fecal Coliform  TKN, NH <sub>3</sub> -N, (NO <sub>2</sub> -N+NO <sub>3</sub> -N), BOD, Total-P, TSS, TDS, Aluminum, Arsenic, Barium, Beryllium, Cadmium, Chloride, Chromium, Fluoride, Lead, Iron, Manganese, Mercury, Selenium, Sodium, Sulfate, Zinc
Semi-annually (April and October)	Wells TSFAG-05, TAN-10A, TAN- 13A, TANT-MON- A-001 and TANT- MON-A-002 and the new well when online.	Grab sample	Water Table Depth (below ground surface), Water Table Elevation (above mean sea level), pH, Total Coliform, Fecal Coliform, TKN, NH <sub>3</sub> -N, NO <sub>2</sub> -N, NO <sub>3</sub> -N, BOD, Total-P, TDS, Aluminum, Arsenic, Barium, Beryllium, Cadmium, Chloride, Chromium, Fluoride, Lead, Iron, Manganese, Mercury, Selenium, Sodium, Sulfate, Zinc

Notes:
1. Abbreviations used in the Facility Monitoring Table are defined as follows:

<b>Abbreviation</b>		<u>Definition</u>	<b>Abbreviation</b>		<u>Definition</u>
BOD	=	Biochemical Oxygen Demand, 5-day	TDS	=	Total Dissolved Solids or Salts
					(inorganic)
O & M	=	Operations and Maintenance	TKN	=	Total Kjeldahl Nitrogen
NH <sub>3</sub> -N	=	Ammonia Nitrogen	Total-P	=	Total Phosphorus
$NO_2$ -N	=	Nitrite Nitrogen	TSS	=	Total Suspended Solids
$NO_3$ -N	=	Nitrate Nitrogen	TSF	=	Technical Support Facility
TAN	=	Test Area North			

LA-000153-02	TAN/TSF STF Disposal Ponds	01/26/05	Page 11

#### H. Standard Reporting Requirements

- 1.) The Permittee shall submit an Annual Wastewater-Land Application Site Performance Report ("Annual Report") prepared by a competent environmental professional no later than March 1 of each year, which shall cover the previous reporting year from November 1 through October 31. The Annual Report shall include an interpretive discussion of monitoring data (ground water, soils, hydraulic loading, wastewater etc.) with particular respect to environmental impacts by the facility. The Annual Report shall include ground water contour maps indicating depth to water, water table elevation, and direction of flow for each monitoring period, utilizing the monitoring wells specified in Appendix 1 of this permit.
- 2.) The annual report shall contain the results of the required monitoring as described in *Section G. Monitoring Requirements*. The permittee shall summarize and submit all monitoring data generated by the facility as specified in *Section G* to the Department with the annual report. If the permittee monitors any parameter for compliance purposes more frequently than required by this permit, the results of the additional compliance monitoring shall be included in this summary and submitted in the annual report. Data collected in support of the daily operation of the treatment system shall not be included.
- 3.) The annual report shall contain a discussion of all noncompliance events, reported under Section I.7 of this permit, which occurred during the WLAP reporting year. The discussion shall include the cause of each noncompliance, the corrective actions implemented to reduce or eliminate each noncompliance, and whether or not each noncompliance has been corrected. For the noncompliance events that have not been corrected, the annual report shall present further corrective actions that will be implemented to reduce or eliminate the noncompliance, including an implementation plan and schedule for the corrective actions and an expected time period when the facility expects to return to compliance.
- 4.) One copy of the annual report shall be submitted to the Engineering Manager at the Idaho Falls Regional DEQ Office:

Greg Eager, P.E. Idaho Falls Regional Office 900 N. Skyline, Suite B Idaho Falls, ID 83402 208-528-2650

One copy of the annual report shall also be mailed to:

Richard Huddleston, P.E. Wastewater Program Manager 1410 N. Hilton Boise, ID 83706 208-373-0561

- 5.) Notice of completion of any work described in *Section E. Compliance Schedule for Required Activities* shall be submitted to the Department within 30 days of activity completion. The status of all other work described in Section E shall be submitted with the Annual Report.
- 6.) The permittee agrees to provide to the Department the results of groundwater radiological monitoring with respect to the TAN/TSF Sewage Treatment Plant Disposal Pond that is performed to fulfill Department of Energy requirements under the Atomic Energy Act. The permittee agrees to provide the results with the Annual Report.
- 7.) The permittee agrees to provide to the Department the results of radiological monitoring of the TAN/TSF STP effluent, prior to discharge into the Disposal Pond, with respect to the TAN/TSF STP Disposal Pond that is performed to fulfill Department of Energy requirements under the Atomic Energy Act. The permittee agrees to provide the results with the Annual Report.

LA-000153-02 TAN/TSF STF Disposal Ponds	01/26/05	Page 12
---	----------	---------

### I. Standard Permit Conditions: Procedures and Reporting

- 1. The permittee shall at all times properly maintain and operate all structures, systems, and equipment for treatment, operational controls and monitoring, which are installed or used by the permittee to comply with all conditions of the permit or the Wastewater-Land Application Permit Regulations, in conformance with a DEQ approved, current Plan of Operations (Operations and Maintenance Manual) which describes in detail the operation, maintenance, and management of the wastewater treatment system. This Plan of Operations shall be updated as necessary to reflect current operations.
- 2. Wastewater(s) or recharge waters applied to the land surface must be restricted to the premises of the application site unless permission has been obtained from the DEQ authorizing a discharge into the waters of the State as stated in IDAPA 58.01.02.600.02.
- 3. Wastewater must not create a public health hazard or nuisance condition as stated in IDAPA 58.01.02.600.03.
- 4. All waste solids, including dredgings and sludges, shall be utilized or disposed in a manner which will prevent their entry, or the entry of contaminated drainage or leachate therefrom, into the waters of the state such that health hazards and nuisance conditions are not created; and to prevent impacts on designated beneficial uses of the ground water and surface water. The permittee's management of waste solids shall be governed by the terms of the DEQ approved Waste Solids Management Plan, which upon approval shall be an enforceable portion of this permit.
- 5. If the permittee intends to continue operation of the permitted facility after the expiration of an existing permit, the permittee shall apply for a new permit at least six months prior to the expiration date of the existing permit in accordance with the Waste Water Land Application Permit Regulations.
- 6. The permittee shall allow the Director of the Idaho Department of Environmental Quality or the Director's designee (hereinafter referred to as Director), consistent with Title 39, Chapter 1, Idaho Code, to:
  - a. Enter the permitted facility,
  - b. Inspect any records that must be kept under the conditions of the permit.
  - c. Inspect any facility, equipment, practice, or operation permitted or required by the permit.
  - d. Sample or monitor for the purpose of assuring permit compliance, any substance or any parameter at the facility.
- 7. The permittee shall report to the Director under the circumstances and in the manner specified in this section:
  - a. In writing thirty (30) days before any planned physical alteration or addition to the permitted facility or activity if that alteration or addition would result in any significant change in information that was submitted during the permit application process.
  - b. In writing thirty (30) days before any anticipated change which would result in non-compliance with any permit condition or these regulations.
  - c. Orally within twenty-four (24) hours from the time the permittee became aware of any non-compliance which may endanger the public health or the environment at telephone numbers provided in the permit by the Director (see below)

DEQ Idaho Falls Regional Office: 1-208-528-2650 Emergency 24 Hour Number 1-800-632-8000

LA-000153-02 TAN/TSF STF Disposal Ponds 01/26/05 Page 13	LA-000153-02	TAN/TSF STF Disposal Ponds	01/26/05	Page 13
--	--------------	----------------------------	----------	---------

#### **DRAFT**

#### I. Standard Permit Conditions: Procedures and Reporting

- d. In writing as soon as possible but within sixty (60) days of the date the permittee knows or should know of any non-compliance unless extended by the DEQ. This report shall contain:
  - i. A description of the non-compliance and its cause;
  - ii. The period of non-compliance including to the extent possible, times and dates and, if the non-compliance has not been corrected, the anticipated time it is expected to continue; and
  - iii. Steps taken or planned to reduce or eliminate reoccurrence of the non-compliance.
- f. In writing as soon as possible after the permittee becomes aware of relevant facts not submitted or incorrect information submitted, in a permit application or any report to the Director. Those facts or the correct information shall be included as a part of this report.
- 8. The permittee shall take all necessary actions to prevent or eliminate any adverse impact on the public health or the environment resulting from permit noncompliance.
- 9. The permittee shall determine (on an on-going basis) if any noxious weed problems relate to the permitted sites. Noxious weeds shall be controlled in accordance with Idaho Code Title 22, Chapter 24. Also address these control operations in an update to the Operations and Maintenance Manual.

LA-000153-02 TA	N/TSF STF Disposal Ponds	01/26/05	Page 14
-----------------	--------------------------	----------	---------

#### J. Standard Permit Conditions: Modifications, Violations, and Revocations

- 1. The permittee shall furnish to the Director within reasonable time, any information including copies of records, which may be requested by the Director to determine whether cause exists for modifying, revoking, re-issuing, or terminating the permit, or to determine compliance with the permit or these regulations.
- 2. Both minor and major modifications may be made to this permit as stated in IDAPA 58.01.17.700.01 and 02 with respect to any conditions stated in this permit upon review and approval of the DEQ.
- 3. Whenever a facility expansion, production increase or process modification is anticipated which will result in a change in the character of pollutants to be discharged or which will result in a new or increased discharge that will exceed the conditions of this permit, or if it is determined by the DEQ that the terms or conditions of the permit must be modified in order to adequately protect the public health or environment, a request for either major or minor modifications must be submitted together with the reports as described in I. *Standard Reporting Requirements*, and plans and specifications for the proposed changes. No such facility expansion, production increase or process modification shall be made until plans have been reviewed and approved by the DEQ and a new permit or permit modification has been issued.
- 4. Permits shall be transferable to a new owner or operator provided that the permittee notifies the Director by requesting a minor modification of the permit before the date of transfer.
- 5. Any person violating any provision of the Waste Water Land Application Permit Regulations, or any permit or order issued thereunder shall be liable for a civil penalty not to exceed ten thousand dollars (\$10,000) or one thousand dollars (\$1,000) for each day of a continuing violation, whichever is greater. In addition, pursuant to Title 39, Chapter 1, Idaho Code, any willful or negligent violation may constitute a misdemeanor.
- 6. The Director may revoke a permit if the permittee violates any permit condition or the Wastewater Land Application Permit Regulations.
- 7. Except in cases of emergency, the Director shall issue a written notice of intent to revoke to the permittee prior to final revocation. Revocation shall become final within thirty-five (35) days of receipt of the notice by the permittee, unless within that time the permittee request an administrative hearing in writing to the Board of the Department of Environmental Quality pursuant to the Rules of Administrative Procedures contained in IDAPA 58.01.23.
- 8. If, pursuant to Idaho Code § 67-5247, the Director finds the public health, safety or welfare requires emergency action, the Director shall incorporate findings in support of such action in a written notice of emergency revocation issued to the permittee. Emergency revocation shall be effective upon receipt by the permittee. Thereafter, if requested by the permittee in writing, a revocation hearing before the Board of the Department of Environmental Quality shall be provided. Such hearings shall be conducted in accordance with the Rules of Administrative Procedures contained in IDAPA 58.01.23..
- 9. The provisions of this permit are severable and if a provision or its application is declared invalid or unenforceable for any reason, that declaration will not affect the validity or enforceability of the remaining provisions.
- 10. The permittee shall notify the DEQ at least six (6) months prior to permanently removing any permitted land application facility from service, including any treatment, storage, or other facilities or equipment associated with the land application site. Prior to commencing closure activities, the permittee shall: a) participate in a pre-site closure meeting with the DEQ; b) develop a site closure plan that identifies specific closure, site characterization, or cleanup tasks with scheduled task completion dates in accordance with agreements made at the pre-site closure meeting; and c) submit the completed site closure plan to the DEQ for review and approval within forty-five (45) days of the pre-site closure meeting. The permittee must complete the DEQ approved site closure plan.

LA-000153-02	TAN/TSF STF Disposal Ponds	01/26/05	Page 15

# Appendix 1

# **Environmental Monitoring Serial Numbers**

#### HYDRAULIC MANAGEMENT UNITS

Serial Number	Description	Acres
MU-015301	TAN/TSF Sewage Treatment Facility main disposal pond	0.90
MU-015302	TAN/TSF Sewage Treatment Facility overflow pond	0.33

#### WASTEWATER SAMPLING POINTS

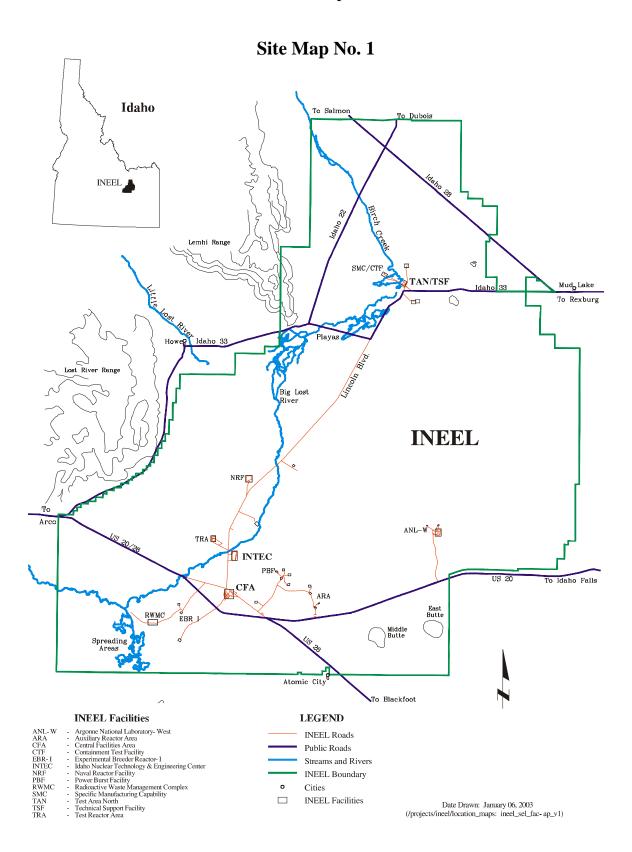
Serial Number	Description	
	Grab Sample and 24-hour Composite Sample of combined wastewater from process drain and sewage treatment facility sources prior to discharge to the TAN/TSF Sewage Treatment Facility Disposal Pond	

#### GROUND WATER MONITORING

Serial Number	Description	Location
GW-015301	TANT-MON-A-001, dedicated monitoring well, upgradient, regional aquifer	Northwest of disposal pond; exact location will be provided in CA-153-01
GW-015302	TAN-13A, dedicated monitoring well, downgradient, regional aquifer	South of disposal pond; exact location will be provided in CA-153-01
GW-015303	TAN-10A, dedicated monitoring well, down or cross gradient, regional aquifer	Southeast of disposal pond; exact location will be provided in CA-153-01
GW-015304	TANT-MON-A-002, dedicated monitoring well, down or cross gradient, regional aquifer	West of disposal pond; exact location will be provided in CA-153-01
GW-015305	(To be determined from CA-153-05) dedicated monitoring well, downgradient, regional aquifer	To be determined
GW-015306	TSFAG-05, perched water	Inside the disposal pond fenced area; exact location will be provided in CA-153-01

LA-000153-02 TAN/TSF STF Disposal Ponds 01/26/05 Page 16
--

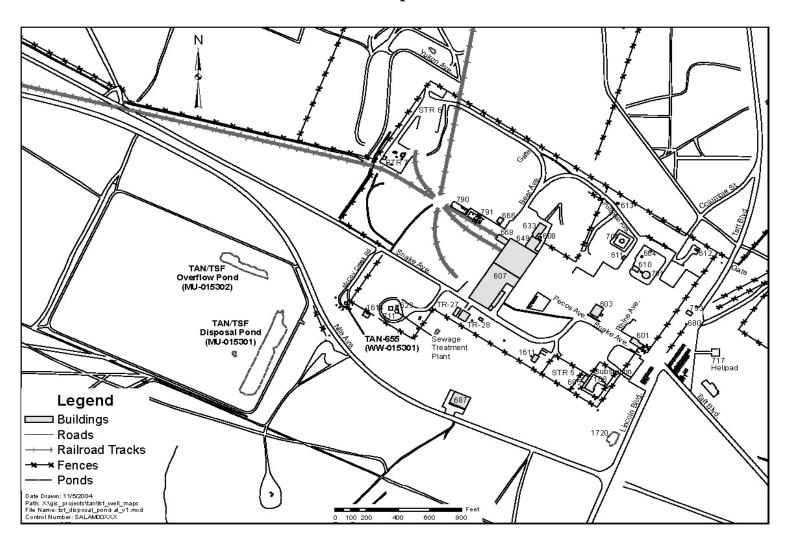
# Appendix 2 Site Maps



LA-000153-02 TAN/TSF STF Disposal Ponds	01/26/05	Page 17
---	----------	---------

Appendix 2 Site Maps

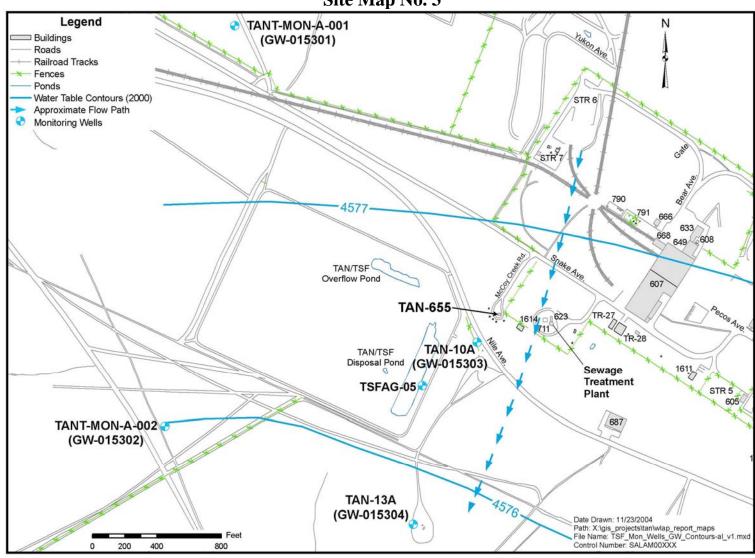
Site Map No. 2



LA-000153-02	TAN/TSF STF Disposal Ponds	01/26/05	Dogo 19
LA-000155-02	TAN/15F 51F Disposal Folius	01/20/05	Page 18

Appendix 2 Site Maps

Site Map No. 3



LA-000153-02	TAN/TSF STF Disposal Ponds	01/26/05	Page 19
	-		O